

Soil and Water Remediation, Groundwater/Vadose Zone (RL-0030)

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***100-NR-2 High-
Concentration Injections***



Overview

This section addresses Project Baseline Summary (PBS) RL-0030, *Soil and Water Remediation, Groundwater/Vadose Zone*.

NOTE: Unless otherwise noted, all information contained herein is as of the end of May 2008.

Notable Accomplishments

• River Corridor

- Completed first set of 100-NR-2 apatite barrier high-concentration injections.
- Completed remaining two 100-D chromium plume characterization wells.
- Accepted six 100-NR-2 monitoring/characterization wells.
- Submitted draft 2007 Annual In-Situ Redox Manipulation (ISRM) report to RL.
- Experienced one order of magnitude reduction in chromium 6 discharge to ISRM pond through 100-DR-5 pump and treat process optimization adjustments.
- Continued 100-KR-4 pump and treat expansion construction.
- Obtained RL and Ecology approval on 100-NR-2 Treatability Test Plan addendum.

• Central Plateau

- Completed T Tank Farm aquifer test; report in development.
- Issued the draft Rev. 0 200-ZP-1 Proposed Plan to the U.S. Environmental Protection Agency (EPA).
- Received design bids for in-situ groundwater treatment for 200-ZP-1 Operable Unit.

• Integration

- Continued well decommissioning along the River Corridor; 15 wells decommissioned in May.
- Completed 60 percent of baseline wells to be sampled (1432 of 2403 wells).
- Transmitted the Resource Conservation and Recovery Act (RCRA) quarterly report to regulators and RL for review.

Issues

Regulators and tribes are continuing to request siting changes for the 100-KR-4 replacement injection wells. These delays in obtaining regulator and cultural review approvals jeopardizes the September 30, 2008, completion date for the replacement wells and piping to the treatment system.

FY 2008 Funds vs. Spend Forecast (\$M)

	Projected FY 2008 Funding	FY 2008 Fiscal Year Spending Forecast	Variance
Soil and Water Remediation, Groundwater/ Vadose Zone	\$ 115.4	\$ 115.2	\$ 0.2

Schedule/Cost Performance (\$M)

Soil & Water Remediation, Groundwater/Vadose Zone	Budgeted Cost of Work Scheduled	Budgeted Cost of Work Performed	Actual Cost of Work Performed	Schedule Variance \$	Schedule Variance %	Cost Variance \$	Cost Variance %	Budget At Completion (FY08/ CTD)
Current Period (Month)	\$9.7	\$9.5	\$10.9	-\$0.2	-2.2%	-\$1.3	-14.0%	\$102.2
Cumulative-to-Date (FY 2004-Present)	\$272.5	\$262.4	\$263.0	-\$10.2	-3.7%	-\$0.6	-0.2%	\$310.8

Numbers are rounded to the nearest \$0.1M and include the Closure Services allocation.

CTD Schedule Performance (-\$10.2M/-3.7%):

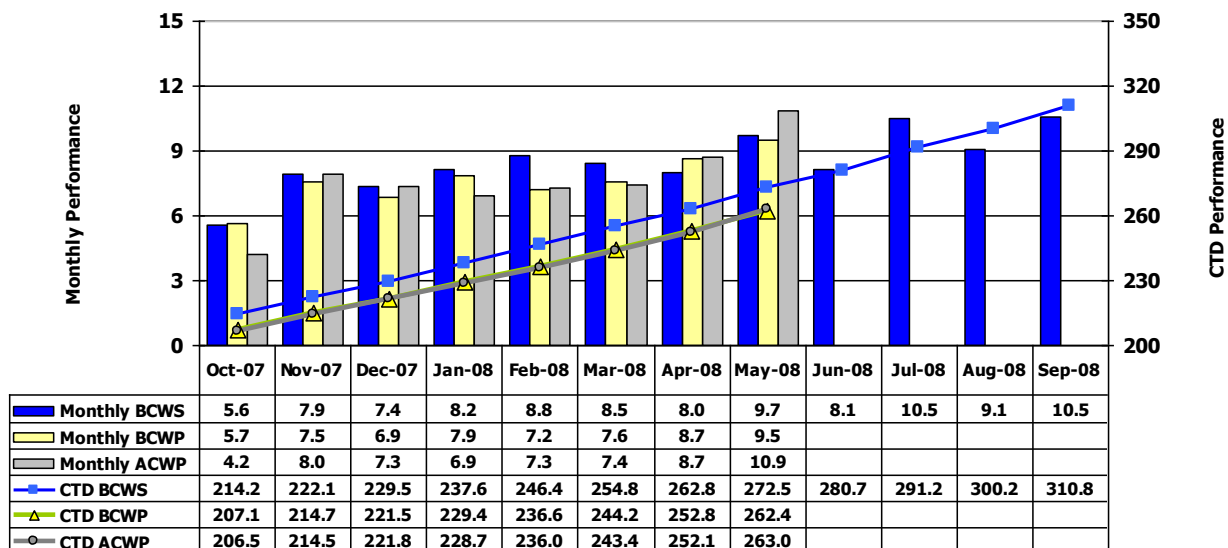
- The CTD schedule variance is primarily due to:
 - Delayed siting of four M-24 wells; planning delays for well decommissioning with resultant field work delays.
 - Delayed contract placement for Groundwater/Vadose Zone Integration.
 - Delayed start of laydown yard decommissioning due to D&D worker constraints.
 - Delayed start for 100-KR-4 construction due to expanded scope.
 - Delayed sampling of 200-BP-5 wells due to drilling delays.
 - Delayed start of 200-ZP-1 pump and treat expansion and final remedy pre-conceptual design.

CTD Cost Performance (-\$0.6M/-0.2%):

- The CTD cost variance is attributable to:
 - Various prior year project overruns for well drilling offset by efficiencies in pump and treat operations.
 - Underruns associated with the Closure Services allocation.

Schedule/Cost Performance (\$M), continued

Performance Analysis CTD and Monthly (\$M)



Milestone Achievement

Hanford Federal Facility Agreement and Consent Order (Tri-Party Agreement) milestones represent significant events in project execution. DOE Enforceable Agreement milestones were established to provide high-level visibility to critical deliverables and specific status on the accomplishment of these key events. The FY 2008 Enforceable Agreement milestone information provided herein is based upon the current baseline including RL-approved changes. Changes from month-to-month in both the total number of milestones to be completed and in the forecast status of upcoming milestones are the result of BCRs approved during the reporting period.

Number	Milestone Title	Type	Due Date	Actual Date	Forecast Date	Status/Comments
M-013-06B	Submit the 200-BP-5 OU RI/FS Work Plan to EPA	TPA	3/31/07	3/30/07		Complete
M-016-14A	Complete Construction of a 300 foot Permeable Reactive Barrier Utilizing Apatite Sequestration at 100-N	TPA	5/31/07	3/25/07		Complete
M-015-48B	Submit the 200-ZP-1 OU Feasibility Study Report / Proposed Plan to EPA	TPA	9/30/07	9/13/07		Complete
M-013-10A	Submit the 200-PO-1 OU Remedial Investigation/Feasibility Study to Ecology	TPA	9/30/07	8/22/07		Complete
M-024-57M	Install a Cumulative of 60 Wells	TPA	12/31/07	4/6/07		Complete
M-015-50	Submit a Treatability Work Plan for Deep Vadose Zone Technetium and Uranium to Ecology and EPA	TPA	12/31/07	12/22/07		Complete
M-016-14B	Submit Draft CERCLA Proposed Plan for 100-NR-2	TPA	12/31/09		12/31/09	TPA Change Request Revised Date to 12/31/09